

ABSTRACT

5 A method of generating a composite signal in a closed loop servo signal system of a
data recording system used to drive a recording head to any given position within a dynamic
range of a servo tracks includes an optical pickup system for generating optical spots focused
on a recording medium, the spots separated by equal distances across a track, the optical
pickup means receiving a set of reflectances from the spots, a media system for providing the
servo tracks responsive to optical spot illumination, an electric system for generating a set of
filtered signals from the reflectances and for generating a set of S-curves by pair wise
subtraction of the filtered signals, a processing system to generate a composite servo position
10 signal from the S-curves and filtered reflectances, and a servo system for driving the
recording head to a desired position by comparing the desired position to a measured position
from the composite servo position.

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